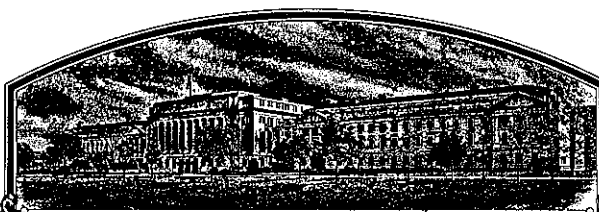


No.

8600033



# THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

**Terral-Norris Seed Co., Inc.**

Whereas, THERE HAS BEEN PRESENTED TO THE

**Secretary of Agriculture**

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED NOVEL VARIETY OF SEXUALLY REPRODUCED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF *eighteen* YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT. THE UNITED STATES SEED OF THIS VARIETY (1) SHALL BE SOLD BY VARIETY NAME ONLY AS SEED OF CERTIFIED SEED AND (2) SHALL CONFORM TO THE NUMBER OF GENERATIONS BY THE OWNER OF THE RIGHTS. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

SOYBEAN

'Terra-Vig 808'

In Testimony Whereof, I have hereunto set my hand and caused the seal of the Plant Variety Protection Office to be affixed at the City of Washington, D. C. this 31st day of August in the year of our Lord one thousand nine hundred and eighty-six.

Attest:

*Kenneth A. Egan*  
Commissioner  
Plant Variety Protection Office  
Agricultural Marketing Service

*Richard E. Lyng*  
Secretary of Agriculture



U.S. DEPARTMENT OF AGRICULTURE  
AGRICULTURAL MARKETING SERVICE

FORM APPROVED: OMB NO. 0581-0055

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).

## APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

(Instructions on reverse)

1. NAME OF APPLICANT(S) Terral-Norris Seed Company, Inc.		2. TEMPORARY DESIGNATION	3. VARIETY NAME Terra-Vig 808
4. ADDRESS (Street and No. or R.F.D. No., City, State, and Zip Code) P.O. Box 826 Lake Providence, LA 71254		5. PHONE (Include area code) 318-559-2840	FOR OFFICIAL USE ONLY VPPO NUMBER 8600033
6. GENUS AND SPECIES NAME Glycine max	7. FAMILY NAME (Botanical) Leguminosae		FILING DATE 12/11/85 TIME 2:00 <input type="checkbox"/> A.M. <input checked="" type="checkbox"/> P.M.
8. KIND NAME Soybean	9. DATE OF DETERMINATION April 1983		AMOUNT FOR FILING \$ 1800 DATE 12/11/85
10. IF THE APPLICANT NAMED IS NOT A "PERSON," GIVE FORM OF ORGANIZATION (Corporation, partnership, association, etc.) Corporation		FEE RECEIVED AMOUNT FOR CERTIFICATE \$ 200 DATE 7/17/86	
11. IF INCORPORATED, GIVE STATE OF INCORPORATION Louisiana		12. DATE OF INCORPORATION 1953	
13. NAME AND ADDRESS OF APPLICANT REPRESENTATIVE(S), IF ANY, TO SERVE IN THIS APPLICATION AND RECEIVE ALL PAPERS Thomas F. Terral Terral-Norris Seed Co., Inc. P.O. Box 826 Lake Providence, LA 71254 PHONE (Include area code): 318-559-2840			
14. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED a. <input checked="" type="checkbox"/> Exhibit A, Origin and Breeding History of the Variety (See Section 52 of the Plant Variety Protection Act.) b. <input checked="" type="checkbox"/> Exhibit B, Novelty Statement. c. <input checked="" type="checkbox"/> Exhibit C, Objective Description of Variety (Request form from Plant Variety Protection Office.) d. <input checked="" type="checkbox"/> Exhibit D, Additional Description of Variety. e. <input checked="" type="checkbox"/> Exhibit E, Statement of the Basis of Applicant's Ownership.			
15. DOES THE APPLICANT(S) SPECIFY THAT SEED OF THIS VARIETY BE SOLD BY VARIETY NAME ONLY AS A CLASS OF CERTIFIED SEED? (See Section 83(a) of the Plant Variety Protection Act.) <input checked="" type="checkbox"/> Yes (If "Yes," answer items 16 and 17 below) <input type="checkbox"/> No			
16. DOES THE APPLICANT(S) SPECIFY THAT THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		17. IF "YES" TO ITEM 16, WHICH CLASSES OF PRODUCTION BEYOND BREEDER SEED? <input checked="" type="checkbox"/> Foundation <input checked="" type="checkbox"/> Registered <input checked="" type="checkbox"/> Certified	
18. DID THE APPLICANT(S) PREVIOUSLY FILE FOR PROTECTION OF THE VARIETY IN THE U.S.? <input type="checkbox"/> Yes (If "Yes," give date) <input checked="" type="checkbox"/> No			
19. HAS THE VARIETY BEEN RELEASED, OFFERED FOR SALE, OR MARKETING IN THE U.S. OR OTHER COUNTRIES? United States 1985 <input checked="" type="checkbox"/> Yes (If "Yes," give names of countries and dates) <input type="checkbox"/> No			
20. The applicant(s) declare(s) that a viable sample of basic seeds of this variety will be furnished with the application and will be replenished upon request in accordance with such regulations as may be applicable. The undersigned applicant(s) is (are) the owner(s) of this sexually reproduced novel plant variety, and believe(s) that the variety is distinct, uniform, and stable as required in Section 41, and is entitled to protection under the provisions of Section 42 of the Plant Variety Protection Act. Applicant(s) is (are) informed that false representation herein can jeopardize protection and result in penalties.			
SIGNATURE OF APPLICANT Thomas F. Terral		DATE 12-9-85	
SIGNATURE OF APPLICANT		DATE	

## EXHIBIT A: Origin and Breeding History of Variety

## Terra-Vig 808 Soybeans

<u>Year</u>	<u>Generation</u>	<u>Activity</u>
1970		Cross: [(N64-2451 x Dyer) x Pickett 71] F1 x Mack
1971	F <sub>1</sub>	Rows 103-104 grown in field
1972	F <sub>2</sub>	Row 331 grown in field
1973	F <sub>3</sub>	Row 290 grown in field
1974	F <sub>4</sub>	Rows 278-287 grown in field: Plants Selected
1975	F <sub>5</sub>	Progeny Row 135
1976	F <sub>6</sub>	Observation and screening for cyst nematode race 3. Rated resistant in field and greenhouse
1977	F <sub>7</sub>	Further observation
1978	F <sub>8</sub>	Further observation, cyst nematode resistance confirmed in S.C. and Miss.
1979	F <sub>9</sub>	Assigned breeding No. Coker 79-505 Replicated yield tests in S.C. Further testing confirmed SCN resistance, showed Columbia Lance nematode resistance, and <u>M. incognita</u> susceptibility
1980-83		Further testing in various states
1984		Named Terra-Vig 808. Registered Seed produced
1985		Certified seed sold

Variants: As many as 0.5% brown hila

Evidence of Stability: After observing seed and plants for 5 generations, seed and plant characters have been uniform.

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EXHIBIT B: Novelty Statement  
Terra-Vig 808 Soybeans

Terra-Vig 808 Soybeans are most similar to Kirby.

Terra-Vig 808 differs from Kirby in that Terra-Vig 808 is susceptible to Southern root knot, Meloidogyne incognita whereas Kirby is resistant.

U.S. DEPARTMENT OF AGRICULTURE  
AGRICULTURAL MARKETING SERVICE  
LIVESTOCK, MEAT, GRAIN & SEED DIVISION  
PLANT VARIETY PROTECTION OFFICE  
BELTSVILLE, MARYLAND 20705

EXHIBIT C  
(Soybean)

OBJECTIVE DESCRIPTION OF VARIETY  
SOYBEAN (*Glycine max* L.)

NAME OF APPLICANT(S) Terral-Norris Seed Company, Inc.	TEMPORARY DESIGNATION	VARIETY NAME Terra-Vig 808
ADDRESS (Street and No., or R.F.D. No., City, State, and Zip Code) P.O. Box 826 Lake Providence, LA 71254		FOR OFFICIAL USE ONLY PVPO NUMBER 8600033 Rfs

Choose the appropriate response which characterizes the variety in the features described below. When the number of significant digits in your answer is fewer than the number of boxes provided, place a zero in the first box when number is 9 or less (e.g., ).

## 1. SEED SHAPE:



1 = Spherical (L/W, L/T, and T/W ratios =  $\leq 1.2$ )  
3 = Elongate (L/T ratio  $> 1.2$ ; T/W =  $\leq 1.2$ )

2 = Spherical Flattened (L/W ratio  $> 1.2$ ; L/T ratio =  $\leq 1.2$ )  
4 = Elongate Flattened (L/T ratio  $> 1.2$ ; T/W  $> 1.2$ )

## 2. SEED COAT COLOR: (Mature Seed)

1 = Yellow

2 = Green

3 = Brown

4 = Black

5 = Other (Specify) \_\_\_\_\_

## 3. SEED COAT LUSTER: (Mature Hand Shelled Seed)

1 = Dull ('Corsoy 79'; 'Braxton')

2 = Shiny ('Nebsoy'; 'Gasoy 17')

## 4. SEED SIZE: (Mature Seed)

Grams per 100 seeds

## 5. HILUM COLOR: (Mature Seed)

1 = Buff

2 = Yellow

3 = Brown

4 = Gray

5 = Imperfect Black

6 = Black

7 = Other (Specify) \_\_\_\_\_

## 6. COTYLEDON COLOR: (Mature Seed)

1 = Yellow

2 = Green

## 7. SEED PROTEIN PEROXIDASE ACTIVITY:

1 = Low

2 = High

## 8. SEED PROTEIN ELECTROPHORETIC BAND:

1 = Type A (SP1<sup>a</sup>)2 = Type B (SP1<sup>b</sup>)

## 9. HYPOCOTYL COLOR:

1 = Green only ('Evans'; 'Davis')

2 = Green with bronze band below cotyledons ('Woodworth'; 'Tracy')

3 = Light Purple below cotyledons ('Beeson'; 'Pickett 71')

4 = Dark Purple extending to unifoliate leaves ('Hodgson'; 'Coker Hampton 266A')

## 10. LEAFLET SHAPE:

1 = Lanceolate

2 = Oval

3 = Ovate

4 = Other (Specify) \_\_\_\_\_

## 11. LEAFLET SIZE:

☐ 1 = Small ('Amsoy 71'; 'A5312')  
☒ 3 = Large ('Crawford'; 'Tracy')

2 = Medium ('Corsoy 79'; 'Gasoy 17')

## 12. LEAF COLOR:

☐ 1 = Light Green ('Weber'; 'York')  
☒ 3 = Dark Green ('Gnome'; 'Tracy')

2 = Medium Green ('Corsoy 79'; 'Braxton')

## 13. FLOWER COLOR:

☐ 1 = White      2 = Purple      3 = White with purple throat

## 14. POD COLOR:

☐ 1 = Tan      2 = Brown      3 = Black

## 15. PLANT PUBESCENCE COLOR:

☐ 1 = Gray      2 = Brown (Tawny)

## 16. PLANT TYPES:

☐ 1 = Slender ('Essex'; 'Amsoy 71')  
☒ 3 = Bushy ('Gnome'; 'Govan')

2 = Intermediate ('Amcor'; 'Braxton')

## 17. PLANT HABIT:

☐ 1 = Determinate ('Gnome'; 'Braxton')  
☒ 3 = Indeterminate ('Nebsoy'; 'Improved Pelican')

2 = Semi-Determinate ('Will')

## 18. MATURITY GROUP:

☐ 1 = 000      2 = 00      3 = 0      4 = I      5 = II      6 = III      7 = IV      8 = V  
☒ 9 = VI      10 = VII      11 = VIII      12 = IX      13 = X

## 19. DISEASE REACTION: (Enter 0 = Not Tested; 1 = Susceptible; 2 = Resistant)

## BACTERIAL DISEASES:

☐ 2 Bacterial Pustule (*Xanthomonas phaseoli* var. *sojensis*)

☐ 0 Bacterial Blight (*Pseudomonas glycinea*)

☐ 2 Wildfire (*Pseudomonas tabaci*)

## FUNGAL DISEASES:

☐ 0 Brown Spot (*Septoria glycines*)

Frogeye Leaf Spot (*Cercospora sojina*)

☐ 0 Race 1      ☐ Race 2      ☐ Race 3      ☐ Race 4      ☐ Race 5      ☐ Other (Specify)

☐ 0 Target Spot (*Corynespora cassiicola*)

☐ 0 Downy Mildew (*Peronospora trifoliorum* var. *manshurica*)

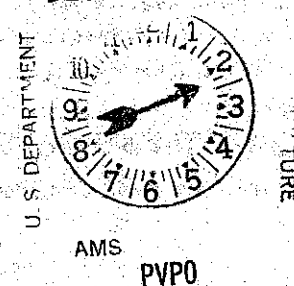
☐ 2 Powdery Mildew (*Microsphaera diffusa*)

☐ 0 Brown Stem Rot (*Cephalosporium gregatum*)

☐ 0 Stem Canker (*Diaporthe phaseolorum* var. *caulivora*)

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## FUNGAL DISEASES: (Continued)

- ☐ Pod and Stem Blight (*Diaporthe phaseolorum* var. *sojae*)  
☐ Purple Seed Stain (*Cercospora kikuchii*)  
☐ Rhizoctonia Root Rot (*Rhizoctonia solani*)  
 Phytophthora Rot (*Phytophthora megasperma* var. *sojae*)  
☐ Race 1   ☒ Race 2   ☐ Race 3   ☐ Race 4   ☐ Race 5   ☐ Race 6   ☐ Race 7  
☐ Race 8   ☐ Race 9   ☐ Other (Specify) \_\_\_\_\_

## VIRAL DISEASES:

- ☐ Bud Blight (Tobacco Ringspot Virus)  
☐ Yellow Mosaic (Bean Yellow Mosaic Virus)  
☐ Cowpea Mosaic (Cowpea Chlorotic Virus)  
☐ Pod Mottle (Bean Pod Mottle Virus)  
☐ Seed Mottle (Soybean Mosaic Virus)

## NEMATODE DISEASES:

- Soybean Cyst Nematode (*Heterodera glycines*)  
☒ Race 1   ☐ Race 2   ☒ Race 3   ☐ Race 4   ☐ Other (Specify) \_\_\_\_\_  
☒ Lance Nematode (*Hoplolaimus Colombus*)  
☒ Southern Root Knot Nematode (*Meloidogyne incognita*)  
☐ Northern Root Knot Nematode (*Meloidogyne Hapla*)  
☒ Peanut Root Knot Nematode (*Meloidogyne arenaria*)  
☐ Reniform Nematode (*Rotylenchulus reniformis*)  
☒ OTHER DISEASE NOT ON FORM (Specify): Cylindrocladium crotalariae

## 20. PHYSIOLOGICAL RESPONSES: (Enter 0 = Not Tested; 1 = Susceptible; 2 = Resistant)

- ☐ Iron Chlorosis on Calcareous Soil  
☐ Other (Specify) \_\_\_\_\_

## 21. INSECT REACTION: (Enter 0 = Not Tested; 1 = Susceptible; 2 = Resistant)

- ☐ Mexican Bean Beetle (*Epilachna varivestis*)  
☐ Potato Leaf Hopper (*Empoasca fabae*)  
☐ Other (Specify) \_\_\_\_\_

## 22. INDICATE WHICH VARIETY MOST CLOSELY RESEMBLES THAT SUBMITTED.

CHARACTER	NAME OF VARIETY	CHARACTER	NAME OF VARIETY
Plant Shape	Kirby	Seed Coat Luster	Hutton
Leaf Shape		Seed Size	
Leaf Color		Seed Shape	
Leaf Size		Seedling Pigmentation	

## 23. GIVE DATA FOR SUBMITTED AND SIMILAR STANDARD VARIETY: Paired Comparison Data

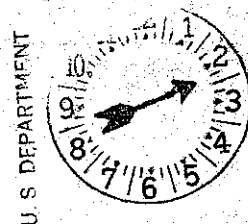
VARIETY	NO. OF DAYS MATURITY	PLANT LODGING SCORE	CM PLANT HEIGHT	LEAFLET SIZE		SEED CONTENT		SEED SIZE G/100 SEEDS	NO. SEEDS/POD
				CM Width	CM Length	% Protein	% Oil		
Submitted	155	3.0	78.7			43.6	20.2	15	
Coker 368 Name of Similar Variety	158	2.5	81.3			43.4	19.3	14	

## PUBLICATIONS USEFUL AS REFERENCE AIDS FOR COMPLETING THIS FORM:

1. Caldwell, B.E., ed. 1973. Soybeans: Improvement, Production, and Uses. Amer. Soc. Agron. Monograph No. 16.
2. Buttery, B.R. and R.I. Buzzell. 1968. Peroxidase activity in seeds of soybean varieties. Crop Sci., 8: 722-725.
3. Hymowitz, T. 1973. Electrophoretic analysis of SBTI-A<sub>2</sub> in the USDA soybean germplasm collection. Crop Sci., 13: 420-421.
4. Payne, R.C. and L.F. Morris. 1976. Differentiation of soybean cultivars by seedling pigmentation patterns. J. Seed Technol. 1: 1-19.

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EXHIBIT D: Additional Description of Variety

Terra-Vig 808 Soybeans

Greenhouse tests indicate that Terra-Vig 808 is resistant to the herbicide metribuzin.

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EXHIBIT E

TERRAL-NORRIS COMPANY'S APPLICATION FOR TERRA-VIG 808

Statement of the Basis of Applicant's Ownership

Terral-Norris Seed Co., Inc. is the owner of Terra-Vig 808 through purchase of the variety.